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NEWS 15 DEC 30 CAPLUS - PATENT COVERAGE EXPANDED  
NEWS 16 JAN 03 No connect-hour charges in EPFULL during January and  
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=> inhal? and (powder? or particulat)  
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=> s inhal? and (powder? or particulat)  
 L1 41721 INHAL? AND (POWDER? OR PARTICULAT)

=> s l1 and (average particel size)  
 L2 0 L1 AND (AVERAGE PARTICEL SIZE)

=> s l1 and (average particle size)  
 L3 870 L1 AND (AVERAGE PARTICLE SIZE)

=> s l3 and excipient  
 L4 385 L3 AND EXCIPIENT

=> s l4 and (active or bioactive or drug or pharmaceutical? or bioaffect?)  
 6 FILES SEARCHED...  
 L5 385 L4 AND (ACTIVE OR BIOACTIVE OR DRUG OR PHARMACEUTICAL? OR BIOAF  
 FECT?)

=> s l5 and (mixer or mixing)  
 L6 275 L5 AND (MIXER OR MIXING)

=> s l6 and layer?  
 L7 192 L6 AND LAYER?

=> s l7 and screen?  
 L8 109 L7 AND SCREEN?

=> s l8 and (betamimetic# or anticholinergic# or corticosteroid# or (dopamine  
 agonist#))  
 L9 49 L8 AND (BETAMIMETIC# OR ANTICHOLINERGIC# OR CORTICOSTEROID# OR  
 (DOPAMINE AGONIST#))

=> s 19 and tiotropium  
L10 10 L9 AND TIOTROPIUM

=> d l10 1-10 ibib abs

L10 ANSWER 1 OF 10 USPATFULL on STN

ACCESSION NUMBER: 2004:197414 USPATFULL

TITLE: Powdered medicaments containing a  
tiotropium salt and salmeterol xinafoate

INVENTOR(S): Hartig, Mareke, Ingelheim, GERMANY, FEDERAL REPUBLIC OF  
Trunk, Michael, Ingelheim, GERMANY, FEDERAL REPUBLIC OF  
Soyka, Rainer, Biberach, GERMANY, FEDERAL REPUBLIC OF  
Sieger, Peter, Mittelbiberach, GERMANY, FEDERAL  
REPUBLIC OF  
Graebner, Hagen, Ingelheim, GERMANY, FEDERAL REPUBLIC  
OF

PATENT ASSIGNEE(S): Walz, Michael, Bingen, GERMANY, FEDERAL REPUBLIC OF  
Boehringer Ingelheim Pharma GmbH & Co. KG, Ingelheim,  
GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004152720	A1	20040805
APPLICATION INFO.:	US 2003-736264	A1	20031215 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2002-DE10259912	20021220
	US 2003-446670P	20030211 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: BOEHRINGER INGELHEIM CORPORATION, 900 RIDGEBURY ROAD,  
P. O. BOX 368, RIDGEFIELD, CT, 06877

NUMBER OF CLAIMS: 20

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 2 Drawing Page(s)

LINE COUNT: 1348

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to **powdered** preparations for  
**inhalation** containing a **tiotropium** salt and salmeterol  
xinafoate, processes for preparing them and their use in the preparation  
of a **pharmaceutical** composition for treating respiratory  
diseases, particularly for treating COPD (chronic obstructive pulmonary  
disease) and asthma.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 2 OF 10 USPATFULL on STN

ACCESSION NUMBER: 2004:190740 USPATFULL

TITLE: New medicaments for the treatment of chronic  
obstructive pulmonary disease

INVENTOR(S): Konetzki, Ingo, Warthausen, GERMANY, FEDERAL REPUBLIC  
OF  
Schromm, Kurt, Ingelheim am Rhein, GERMANY, FEDERAL  
REPUBLIC OF  
Schollenberger, Hermann, Ingelheim am Rhein, GERMANY,  
FEDERAL REPUBLIC OF  
Pestel, Sabine, Biberach, GERMANY, FEDERAL REPUBLIC OF  
Schnapp, Andreas, Biberach, GERMANY, FEDERAL REPUBLIC  
OF  
Bouyssou, Thierry, Mietingen, GERMANY, FEDERAL REPUBLIC  
OF  
Buettner, Frank, Ummendorf, GERMANY, FEDERAL REPUBLIC  
OF

Heine, Claudia, Biberach, GERMANY, FEDERAL REPUBLIC OF  
Lustenberger, Philipp, Warthausen, GERMANY, FEDERAL  
REPUBLIC OF  
Hoenke, Christoph, Ingelheim, GERMANY, FEDERAL REPUBLIC  
OF  
Rudolf, Klaus, Warthausen, GERMANY, FEDERAL REPUBLIC OF  
PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma GmbH & Co. KG, Ingelheim,  
GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004147513	A1	20040729
APPLICATION INFO.:	US 2003-705012	A1	20031110 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2002-DE10253282	20021115
	US 2002-434038P	20021217 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BOEHRINGER INGELHEIM CORPORATION, 900 RIDGEBURY ROAD, P. O. BOX 368, RIDGEFIELD, CT, 06877	
NUMBER OF CLAIMS:	25	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1870	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A pharmaceutical composition comprising a compound of formula  
1 ##STR1##

wherein:

n is 1 or 2;

R.sub.1 is hydrogen, C.sub.1-C.sub.4-alkyl, halogen, OH, or  
--O--C.sub.1-C.sub.4-alkyl;

R.sub.2 is hydrogen, C.sub.1-C.sub.4-alkyl, halogen, OH, or  
--O--C.sub.1-C.sub.4-alkyl;

R.sub.3 is hydrogen, C.sub.1-C.sub.4-alkyl, OH, halogen,  
--O--C.sub.1-C.sub.4-alkyl, --O--C.sub.1-C.sub.4-alkylene-COOH, or  
--O--C.sub.1-C.sub.4-alkylene-CO--O--C.sub.1-C.sub.4-alkyl, or

an acid addition salt thereof with a pharmacologically acceptable acid,  
or a solvate or hydrate thereof; and

a pharmaceutically acceptable excipient or carrier,  
and methods for using the pharmaceutical formulation in the  
treatment of chronic obstructive pulmonary disease (COPD).

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 3 OF 10 USPATFULL on STN

ACCESSION NUMBER: 2004:179137 USPATFULL

TITLE: Dihydroxymethylphenyl derivatives, processes for  
preparing them, and their use as  
pharmaceuticals

INVENTOR(S): Konetzki, Ingo, Warthausen, GERMANY, FEDERAL REPUBLIC  
OF  
Schromm, Kurt, Ingelheim am Rhein, GERMANY, FEDERAL  
REPUBLIC OF  
Schollenberger, Hermann, Ingelheim am Rhein, GERMANY,  
FEDERAL REPUBLIC OF  
Pestel, Sabine, Biberach, GERMANY, FEDERAL REPUBLIC OF

Schnapp, Andreas, Biberach, GERMANY, FEDERAL REPUBLIC OF  
 Bouyssou, Thierry, Mietingen, GERMANY, FEDERAL REPUBLIC OF  
 Buettner, Frank, Ummendorf, GERMANY, FEDERAL REPUBLIC OF  
 Heine, Claudia, Biberach, GERMANY, FEDERAL REPUBLIC OF  
 Boehringer Ingelheim Pharma GmbH & Co. KG, Ingelheim,  
 GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)

PATENT ASSIGNEE(S):

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004138307	A1	20040715
APPLICATION INFO.:	US 2003-697525	A1	20031030 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2002-DE10253220	20021115
	US 2002-434053P	20021217 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BOEHRINGER INGELHEIM CORPORATION, 900 RIDGEBURY ROAD, P. O. BOX 368, RIDGEFIELD, CT, 06877	
NUMBER OF CLAIMS:	17	
EXEMPLARY CLAIM:	1	
LINE COUNT:	784	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		
AB	A compound of formula 1 ##STR1##	

wherein the groups R.sup.1, R.sup.2, R.sup.3, and R.sup.4 may have the meanings given in the claims and in the specification, processes for preparing them, and their use as pharmaceutical compositions, particularly for the treatment of inflammatory and obstructive respiratory complaints.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 4 OF 10 USPATFULL on STN

ACCESSION NUMBER: 2004:177755 USPATFULL

TITLE: Tiotropium containing powder  
formulation for inhalation

INVENTOR(S): Hartig, Mareke, Ingelheim, GERMANY, FEDERAL REPUBLIC OF  
 Trunk, Michael, Ingelheim, GERMANY, FEDERAL REPUBLIC OF  
 Walz, Michael, Bingen, GERMANY, FEDERAL REPUBLIC OF

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma GmbH & Co. KG, Ingelheim,  
 GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004136919	A1	20040715
APPLICATION INFO.:	US 2003-718404	A1	20031120 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2002-DE10255387	20021128
	US 2003-446669P	20030211 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BOEHRINGER INGELHEIM CORPORATION, 900 RIDGEBURY ROAD, P. O. BOX 368, RIDGEFIELD, CT, 06877	
NUMBER OF CLAIMS:	11	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Page(s)	
LINE COUNT:	825	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to **powdered** preparations containing **tiotropium** for **inhalation**, processes for preparing them as well as their use in preparing a **pharmaceutical** composition for the treatment of respiratory complaints, particularly for the treatment of COPD (chronic obstructive pulmonary disease) and asthma.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 5 OF 10 USPATFULL on STN

ACCESSION NUMBER: 2004:159304 USPATFULL

TITLE: **Betamimetics** with a prolonged duration of activity, processes for preparing them, and their use as **pharmaceutical** compositions

INVENTOR(S): Buettner, Frank, Ummendorf, GERMANY, FEDERAL REPUBLIC OF  
Konetzki, Ingo, Warthausen, GERMANY, FEDERAL REPUBLIC OF  
Schromm, Kurt, Ingelheim, GERMANY, FEDERAL REPUBLIC OF  
Schollenberger, Hermann, Ingelheim, GERMANY, FEDERAL REPUBLIC OF  
Pestel, Sabine, Biberach, GERMANY, FEDERAL REPUBLIC OF  
Schnapp, Andreas, Biberach, GERMANY, FEDERAL REPUBLIC OF  
Bouyssou, Thierry, Mietingen, GERMANY, FEDERAL REPUBLIC OF  
Heine, Claudia, Biberach, GERMANY, FEDERAL REPUBLIC OF  
PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma GmbH & Co. KG, Ingelheim, GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004122108	A1	20040624
APPLICATION INFO.:	US 2003-666068	A1	20030919 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2002-10246374	20021004
	US 2002-432499P	20021211 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BOEHRINGER INGELHEIM CORPORATION, 900 RIDGEBURY ROAD, P. O. BOX 368, RIDGEFIELD, CT, 06877	
NUMBER OF CLAIMS:	16	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1024	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A compound of formula 1 ##STR1##

wherein: R.sup.1 is C.sub.1-C.sub.4-alkyl; R.sup.2 is C.sub.1-C.sub.4-alkyl; and R.sup.3 is C.sub.1-C.sub.4-alkyl or phenyl, each optionally mono- or polysubstituted, or R.sup.2 and R.sup.3 together are --CH.sub.2--CH.sub.2-- or --CH.sub.2--CH.sub.2--CH.sub.2-- or the corresponding acid addition salt with a pharmacologically acceptable acid, processes for preparing such compounds, **pharmaceutical** compositions containing such compounds, and their use in the treatment of inflammatory and obstructive respiratory diseases.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 6 OF 10 USPATFULL on STN

ACCESSION NUMBER: 2004:2487 USPATFULL

TITLE: Crystalline micronisate, process for the manufacture thereof and use thereof for the preparation of a medicament

INVENTOR(S): Bender, Helmut, Wiesbaden, GERMANY, FEDERAL REPUBLIC OF  
Graebner, Hagen, Ingelheim, GERMANY, FEDERAL REPUBLIC OF  
Schindler, Konrad, Ingelheim, GERMANY, FEDERAL REPUBLIC OF  
Trunk, Michael, Ingelheim, GERMANY, FEDERAL REPUBLIC OF  
Walz, Michael, Bingen, GERMANY, FEDERAL REPUBLIC OF

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma GmbH & Co. KG, Ingelheim, GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004002510	A1	20040101
APPLICATION INFO.:	US 2003-385175	A1	20030310 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2002-10212264	20020320
	US 2002-413129P	20020924 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BOEHRINGER INGELHEIM CORPORATION, 900 RIDGEBURY ROAD, P. O. BOX 368, RIDGEFIELD, CT, 06877	
NUMBER OF CLAIMS:	18	
EXEMPLARY CLAIM:	1	
LINE COUNT:	880	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to a crystalline micronisate of  
(1 $\alpha$ ,2 $\beta$ ,4 $\beta$ ,5 $\alpha$ ,7 $\beta$ )-7-[(hydroxydi-2-thienylacetyl)oxy]-9,9-dimethyl-3-oxa-9-azoniatricyclo[3.3.1.0.<sup>sup</sup>2,4]nonane-bromide, processes for preparing it and its use for preparing a pharmaceutical composition, particularly for preparing a pharmaceutical composition with an anticholinergic activity.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 7 OF 10 USPATFULL on STN

ACCESSION NUMBER: 2003:334663 USPATFULL

TITLE: Method for the administration of an anticholinergic by inhalation

INVENTOR(S): Zierenberg, Bernd, Bingen am Rhein, GERMANY, FEDERAL REPUBLIC OF

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma GmbH & Co. KG, Ingelheim, GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003235538	A1	20031225
APPLICATION INFO.:	US 2003-407019	A1	20030404 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	EP 2002-7868	20020409
	US 2002-386794P	20020607 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BOEHRINGER INGELHEIM CORPORATION, 900 RIDGEBURY ROAD, P. O. BOX 368, RIDGEFIELD, CT, 06877	
NUMBER OF CLAIMS:	21	
EXEMPLARY CLAIM:	1	

NUMBER OF DRAWINGS: 1 Drawing Page(s)

LINE COUNT: 786

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An **inhalation** kit comprising: (a) an **inhaler** displaying a flow resistance of about 0.01 to 0.1 {square root}{square root over (kPa)} min/L; and (b) an **inhalable powder** comprising **tiotropium** in admixture with a physiologically acceptable **excipient** with an **average particle size** of between 10 to 500  $\mu\text{m}$ , and a method of administering an **inhalable powder** containing **tiotropium** in admixture with a physiologically acceptable **excipient** with an **average particle size** of between 10  $\mu\text{m}$  to 500  $\mu\text{m}$ , the method comprising actuating an **inhaler** a flow resistance of about 0.01 to 0.1 {square root}{square root over (kPa)} min/L containing the **inhalable powder**.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 8 OF 10 USPATFULL on STN

ACCESSION NUMBER: 2003:127712 USPATFULL

TITLE: Crystalline **anticholinergic**, processes for preparing it and its use for preparing a **pharmaceutical** composition

INVENTOR(S): Sieger, Peter, Mittelbiberach, GERMANY, FEDERAL REPUBLIC OF  
Werthmann, Ulrike, Mittelbiberach, GERMANY, FEDERAL REPUBLIC OF

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma KG, Ingelheim, GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003087927	A1	20030508
	US 6608055	B2	20030819
APPLICATION INFO.:	US 2002-167198	A1	20020611 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2001-129710	20010622
	DE 2002-10215436	20020408
	US 2001-313519P	20010820 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BOEHRINGER INGELHEIM CORPORATION, 900 RIDGEBURY ROAD, P. O. BOX 368, RIDGEFIELD, CT, 06877	
NUMBER OF CLAIMS:	18	
EXEMPLARY CLAIM:	1	
LINE COUNT:	701	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to crystalline anhydrous (1 $\alpha$ ,2 $\beta$ ,4 $\beta$ ,5 $\alpha$ ,7 $\beta$ )-7-[(hydroxydi-2-thienylacetyl)oxy]-9,9-dimethyl-3-oxa-9-azoniatricyclo[3.3.1.0<sup>2,4</sup>.sup.2,4]nonane-bromide, processes for preparing it and its use for preparing a **pharmaceutical** composition, particularly for preparing a **pharmaceutical** composition with an **anticholinergic** activity.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 9 OF 10 USPATFULL on STN

ACCESSION NUMBER: 2003:63569 USPATFULL

TITLE: Sprinkling method for preparing **powder** formulations



INVENTOR(S): Boeck, Georg, Mainz, GERMANY, FEDERAL REPUBLIC OF  
Walz, Michael, Bingen, GERMANY, FEDERAL REPUBLIC OF  
PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma KG, Ingelheim, GERMANY,  
FEDERAL REPUBLIC OF, D-55216 (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003043687	A1	20030306
APPLICATION INFO.:	US 2002-226062	A1	20020822 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2001-141377	20010823
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BOEHRINGER INGELHEIM CORPORATION, 900 RIDGEBURY ROAD, P. O. BOX 368, RIDGEFIELD, CT, 06877	
NUMBER OF CLAIMS:	11	
EXEMPLARY CLAIM:	1	
LINE COUNT:	635	

AB The invention relates to a new process for producing **powdered** preparations for **inhalation** wherein a substance having a smaller particle size distribution is metered continuously through a suitable feed device onto a moving bed of a **powdered** substance having a larger particle size distribution.

L10 ANSWER 10 OF 10 USPATFULL on STN

ACCESSION NUMBER: 2002:198239 USPATFULL  
TITLE: Process for preparing **powder** formulations  
INVENTOR(S): Walz, Michael, Bingen, GERMANY, FEDERAL REPUBLIC OF  
Boeck, Georg, Mainz, GERMANY, FEDERAL REPUBLIC OF

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002106332	A1	20020808
	US 6585959	B2	20030701
APPLICATION INFO.:	US 2001-977911	A1	20011011 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2000-DE10050635	20001012
	DE 2001-DE138022	20010810
	US 2000-252683P	20001122 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BOEHRINGER INGELHEIM CORPORATION, 900 RIDGEBURY ROAD, P. O. BOX 368, RIDGEFIELD, CT, 06877	
NUMBER OF CLAIMS:	15	
EXEMPLARY CLAIM:	1	
LINE COUNT:	650	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to a new process for producing **powdered** preparations for **inhalation**.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.